

ABSTRACT

The present invention is a compact pump that is powered by a brushless DC spindle-motor, as used in disk drives and CD-ROM drives. A hard drive type spindle-motor is a brushless DC motor that is highly balanced, very reliable, available at low cost, and is capable of significant rotational speeds. According to the present invention, a spindle-motor is mounted to a pump housing and to an impeller within the housing. The spindle-motor rotates the impeller causing movement of a fluid. Preferably for spray cooling, the pump is a turbine pump.